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BHSF-6.9.1.21 7/31/01

Superfund Project Office 1005 West McKinley Avenue Kellogg, Idaho 83837-2506 Telephone: (208) 783-5781 FAX#: (208) 783-4561



To: Mary Kay Vaytille	
	<del></del>
From: Bill HUDSON	
Fax#:	
Subject: 206553-0124	
Date:	
Pages: 32	
COMMENTS:	
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mern Analytical Laboratories, Inc.

Client Name: IDAHO DEPARTMENT OF HEALTH AND WELFARE

Project No.: 980271

Project Name: REED'S LANDING

Sample No.:

2001050175-1

Description: 2429

Date Received: 05/15/2001

Date Collected: 05/09/2001

Collected by: KAY KLIEWER

Matrix: WATER

Laboratory Test	Measured Value	Test Units	Test Method	Date of Analysis	
B.H. QUARTERLY, TOTAL METALS				Tasmouoou	
Antimony as Sb (Total)	<0.05	mg/l	200.8	05/29/2001	
	0.007	mg/l	200.8	05/29/2001	
Arsenic as As (Total)	0.028	mg/l	200.8	05/29/2001	
Cadmium as Cd (Total)	0.024	mg/l	200.8	05/29/2001	
Copper as Cu (Total)			200.8	05/29/2001	
Lead as Pb (Total)	0.083	mg/l			
	<0.0002	mg/l	245.1CLP-M	05/30/2001	
Mercury as Hg (Total)	9.93	mg/l	200.7CLP-M	06/01/2001	
Zinc as Zn (Total)			CLP A-2	05/30/2001	
ICP/AA Batch#/Digest Date	1279			05/24/2001	
ICPMS Batch#/Digest Date	1270		3020A		
Mercury Batch #/Digest Date	132		245.1CLP-M	05/30/2001	

rn Analytical Laboratories, Inc.

Ment Name: IDAHO DEPARTMENT OF HEALTH AND WELFARE

Project No.: 980271

Project Name: REED'S LANDING

Sample No.:

2001050175-2

Description: 2430

Date Received: 05/15/2001

Date Collected: 05/09/2001

Collected by: KAY KLIEWER

Matrix: WATER

Laboratory Test	Measured Value			Date of Analysis	
B.H. QUARTERLY, TOTAL METALS				<del></del>	
Antimony as Sb (Total)	<0.05	mg/l	200.8	05/29/2001	
Arsenic as As (Total)	0.007	mg/l	200.8	05/29/2001	
Cadmium as Cd (Total)	0.028	mg/l	200.8	05/29/2001	
Copper as Cu (Total)	0.024	mg/l	200.8	05/29/2001	
Lead as Pb (Total)	0.082	mg/l	200.8	05/29/2001	
Mercury as Hg (Total)	<0.0002	rng/l	245.1CLP-M	05/30/2001	
Zinc as Zn (Total)	10.0	mg/l	200.7CLP-M	06/01/2001	
	1279		CLP A-2	05/30/2001	
ICP/AA Batch#/Digest Date	1270		3020A	05/24/2001	
ICPMS Batch#/Digest Date  Mercury Batch #/Digest Date	132		245.1CLP-M	05/30/2001	

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# aiern Analytical Laboratories, Inc.

Client Name: IDAHO DEPARTMENT OF HEALTH AND WELFARE

Project No.: 980271

Project Name: Reed's Landing

Sample No.:

2001050176-2

Description: 2432

Date Received: 05/15/2001

Date Collected: 05/09/2001

Collected by: Jane Bravo

Matrix: WATER

Laboratory	Measured Value			Date of Analysis	
Test		······································			
B.H. QUARTERLY, DISSOLVED METALS	<0.05	mg/l	200.8	05/24/2001	
Antimony as Sb (Dissolved)		mg/l	200.8	05/24/2001	
Arsenic as As (Dissolved)	<0.005	mg/l	200.8	05/24/2001	
Cadmium as Cd (Dissolved)	0.032	mg/l	200.8	05/24/2001	
Copper as Cu (Dissolved)	0.024	mg/l	200.8	05/24/2001	
Lead as Pb (Dissolved)	0.089	mg/l	200.8	05/24/2001	
Mercury as Hg (Dissolved)	<0.0002	mg/l	200.7CLP-M	05/22/2001	
Zinc as Zn (Dissolved)	10.2			1	
Mercury Batch #/Digest Date	NA				

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vern Analytical Laboratories, Inc.

lient Name: IDAHO DEPARTMENT OF HEALTH AND WELFARE

Project No.:

980271

Project Name: Reed's Landing

Sample No.:

2001050176-3

Description: 2433

Date Received: 05/15/2001

Date Collected: 05/09/2001

Collected by: Jane Bravo

Matrix: WATER

Laboratory Test	Measured Test Välue Unit		Test Method	Date of Analysis
B.H. QUARTERLY, DISSOLVED METALS				Torin 4 Mond
Antimony as Sb (Dissolved)	<0.05	mg/l	200.8	05/24/2001
	<0.005	mg/l	200.8	05/24/2001
Arsenic as As (Dissolved)	0.032	mg/l	200.8	05/24/2001
Cadmium as Cd (Dissolved)		_ <del> </del>	200.8	05/24/2001
Copper as Cu (Dissolved)	0.024	mg/l		05/24/2001
Lead as Pb (Dissolved)	0.088	mg/l	200.8	
	<0.0002	mg/l	200.8	05/24/2001
Mercury as Hg (Dissolved)	10.1	mg/l	200.7CLP-M	05/22/2001
Zinc as Zn (Dissolved)	10.1	11191		
Mercury Batch #/Digest Date	NA			<u></u>



101 S. Jackson St Moseow Id 83843 208 882-7855

#### FAX

Date: 09/26/01

Time: 4:30 pm

To:

Mary Kay Voytilla, EPA R10

From: Steve Gill, TerraGraphics

Subject: Reed's Landing Water Quality

Pages: 2 (including cover sheet)

#### Marykay,

included are the sampling results from Reed's Landing taken 05/09/01 and 08/17/01.

Table 1A shows the analytical results for dissolved metals. Note that there were reductions in lead (dissolved) from 0.089mg/l to 0.038mg/l; zinc (dissolved) from 10.2mg/l to 0.97mg/l; and cadmium (dissolved) from 0.0011mg/l to < 0.004mg/l.

We are awalting the total metals analysis for 05/09/01 from Northern Analytical.

Please contact me if you have additional needs.

Regards, Steve Gill

Table 1A Analytical results for Reed's Landing - Dissoived Metals

	Sample	···	Antimony		Cadmium		Lead	Mercury	Zine	هند الله الله الله الله الله الله الله الل
Labit	) Date	Units	(Dissolved)	Comments						
ARAR	for Surface V	Valet	0.014	0.000018	0.0011	0.0115	0.00479	0.0000124	0.10758*	
2432	05/09/01	mg/l	< 0.05	<0.005	0.032	0.024 )	0.089	<0.0002	10.2	
2545	08/17/01	mg/l	<0.05	<0.005	<0,004	< 0.012	0.038	<0.0002	0.97	

<sup>\*;</sup> Converted for dissolved concentrations per IDAPA 16.250

Table 1B Analytical results for Reed's Landing - Total Metals

	Sample		Antimony	Arsenie	Cedalua	Соррег	Lead	Mercury	Zinc	
Lab 🖽	Date	Units	(Total)	(Total)	(Total)	(Total)_	(Total)	(Total)	(Total)	Comments
ARAR	for Surface Wa	ter	0.014	0.000018	_0.0011	0.0120	0.0032	0.000012	0.11	
2429	5/9/01	mg/l							'	In route from lab
2540	8/17/01	mg/l	<0.05	<0.005	<0.004	<0.012	0.042	<0.0002	0.92	

Table 2 Blanks For Reed's Landing

	Sample		Antimony	Arsenic	Cadmium	Copper	Lead	Mercury	Zise	
Lab ID	Date	Units	(Total)	(Total)	(Total)	(Total)	(Total)	(Total)	(Total)	Comments
2431	3/9/01	mg/l	<0.05	<0.005	<0.004	<0.012	<0.003	<0.0002	<0.02	Dissolved Metals, Rinsate
2434	<b>5/9</b> /01	mg/l	< 0.05	<0.005	< 0.004	0.020*	< 0.003	<0.0002	<0.02	Dissolved Metals, Field
2538	8/17/01	mg/l	<0.05	<0.005	<0.004	< 0.012	<0.003	<0.0002	< 0.02	Dissolved Metals, Rinsate
2539	8/17/01	mg/I	<0.05	<0.005	<0.004	<0.012	<0.003	<0.0002	<0.02	Dissolved Metals, Field

<sup>\*</sup> Pailed QA/QC criteria, released temples from \$19/01 qualified at estimated (/)

Table 3A Field Duplicates For Reed's Landing - Dissolved Metals

Lah ID	Sample Date	Sample	Astimony (mg/l)	Arsenic (mg/l)	Cadmion (mg/l)	Copper (mg/l)	Lead (mg/l)	Mercury (mg/l)	Zias (mg/l)
2432	5/9/01	Original	<0.05	<0.005	0.032	0.024 ]	0.089	<0.0002	10.2
2433	5/9/01	Duplicate	<0.05	<0.005	0.032	0.024 J	0.088	<0,0002	10.1
		RPD	NA	NA_	0%	0%_	1%	NA NA	1%
2545	8/17/01	Original	<0.05	<0.005	<0.004	<0.012	0.038	<0.0002	0.97
2546	8/17/01	Duplicate	<0.05	<0.005	<0.004	<0.012	0.036	<0.0002	0.94
	**	RPD	NA	NA.	NA.	NA	5%	NA	_3%

<sup>7:</sup> Qualified as an estimate, QA/QC private not met

Table 3B Field Duplicates For Reed's Landing - Total Metals

Lab ID	Sample Date	Sample	Antimony (mg/l)	Arsenie (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Mercury (mg/l)	Zine (mg/1)
2429	5/9/01	Original							
2430	5/9/01	Duplicate RPD	*****						
2540	£/17/01	Original	<0.05	<0.005	<0.004	<0.012	0.042	<0.0002	0.98
2541	2/17/01	Duplicate	<0.05	<0.005	<0.004	<0.012	0.044	<0,0002	1.09
		RPD	NA	ŇÁ	NA	NA	5%	NA	11%

 $RPD = ABS((X1-X2)/(X1+X2)^42)$ 

f: Qualified as an éximete, QA/QC criteria not met

XI = ONIGINAL SAMPLE

X2 - DUPLICATE SAMPLE

Concentration below instrument detection limit

TerraGraphics

121 S Jackson St Moscow, Id 83843 208 882-7858

with a continuous of the said bank them a such as and

FAX

Date: 09/24/01

: Mary Kay Voytilla, EPA R10

Subject: Reed's Landing Water Quality

Time: 4:30 pm

From: Steve Gill, TerraGraphics

Pages: 3 (including cover sheet)

Marykay,

Included are the sampling results from Reed's Landing taken on August 17, 2001. Not included are the total metals analysis, samples 2540 & 2541, because Northern Analytical just mailed them to IDEQ's Kellogg office on Sept 19, 2001. I have also included the date, time, specific conductivity, temperature, and pH measurements taken during this sampling event.

Regards, Steve Gill

### ern Analytical Laboratories, Inc.

ant Name: IDAHO DEPARTMENT OF HEALTH AND WELFARE

Project No.: 2001-20

Project Name: B. H. MONTHLY MONITORING

Sample No.:

2001080232-4

Description: 254 2545 RD

Date Received: 08/22/2001

Date Collected: 08/17/2001

Collected by: J. BRAVO/S. GILL

Matrix: WATER

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Measured Value	Test Units	Test Method	Date of Analysis
<0.05	mg/t	200.8	09/11/2001
<0.005	mg/l	200.8	09/11/2001
<0.004	mg/l	200.8	09/11/2001
<0.012	mg/l	200.8	09/11/2001
0.038	mg/l	200.8	09/11/2001
<0.0002	mg/l	200.8	09/11/2001
0.97	mg/l	200.8	09/11/2001
	<0.05 <0.008 <0.004 <0.012 0.038 <0.0002	<0.05   mg/l	Value   Units   Method

Datel Time Collected: 08-17-01

7:23 AM

Conductivity 93 u5/cm 8.8°C

March Action 2

Page 2

## .iern Analytical Laboratories, Inc.

JIIIent Name: IDAHO DEPARTMENT OF HEALTH AND WELFARE

Project No.: 2001-

Project Name: B.H. MONTHLY MONITORING

Collected by: BRAVÖ & GILL Date Received: 08/17/2001
Matrix: WATER
Order No.: 2001080184

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
rotal Sus	pended Solids			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
. 1	2544	08/16/2001	19	mg/l	160.2	1.00	02/23/2001
2	PREPARATION BLANK		<4	mg/l	160.2	1.00	08/23/2001
3	AQUEOUS CONTROL SAMPLE		95	% [80-120]	160.2	1.00	08/23/2001
4	DUPLICATE OF 080184-1	08/16/2001	18	mg/l	160.2	1.00	08/23/2001